



State of Utah

Department of  
Natural Resources

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Division of  
Oil, Gas & Mining


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*Lieutenant Governor*

July 29, 2004

TO: Minerals File

FROM: Paul Baker, Senior Reclamation Biologist 

SUBJECT: Site Inspection, Diamond K Gypsum, DKG Quarry, M/015/041, Emery County, Utah

Date of Inspection: July 2, 2004  
Time of Inspection: 8:45 to 10:15 a.m.  
Conditions: Clear, 80's  
Participants: Bill Price and Adam Parsons, Diamond K; Paul Baker, DOGM

**Purpose of Inspection:**

I wanted to see if progress was being made toward realigning the Moore Road in the area of the mine. Once I got to the site, I was concerned it might be larger than it should be.

**Observations:**

I used a GPS unit to record the perimeter of the area currently disturbed for mining operations. I also measured a small area within the disturbed area that I originally thought was undisturbed but later realized had been disturbed but now has very good cover from native vegetation. I also took GPS readings for the access road, but I split this out between portions of the road running through the disturbed area and the part running through otherwise undisturbed areas. I did not include any of the reclaimed areas near South Salt Wash and north of the active mining area.

A map showing the areas measured with the GPS is attached to this report. It shows the active disturbance as 15.85 acres. According to the mining and reclamation plan, the road would also be reclaimed, but it appears the first 308 feet of road existed prior to the mine and should not be reclaimed. The road was

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Diamond K Gypsum, DKG Quarry

M/015/041

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1362 feet long, so subtracting the area that would probably not be reclaimed and multiplying by the width I estimated (35 feet), gives 36,890 square feet or 0.85 acres. Adding this to the disturbed area for the mine itself gives a total disturbed area acreage of 16.70 acres, not counting those areas that have been regraded and seeded.

I don't know whether the area on the map marked reclaimed was intentionally reclaimed and seeded or if the plants are the result of natural invasion. This area is shown in Photos 2 and 4. Most of this area had a fair amount of cover from rocks, but some did not.

Photos 1 and 3 show where material has gone into some of the adjacent ephemeral drainages. I had some concern about this getting into the runoff, but I did not see evidence of much, if any, sediment leaving the site.

#### **Conclusions and Recommendations:**

The Division and the operator should watch the drainages for signs that sediment from the mine is being transported off site. If so, it may be necessary to install silt fences downstream, but I do not anticipate this.

The reclamation contract says a maximum of 12.6 acres of land will be disturbed at any one time. Since the actual disturbed area is 16.7 acres, the operator needs to reclaim at least 4.1 acres of land as soon as possible. Alternatively, the operator could post additional bond to cover this additional disturbance. The current bond is about \$2627 per acre, so the additional bond required would be about \$10,771.

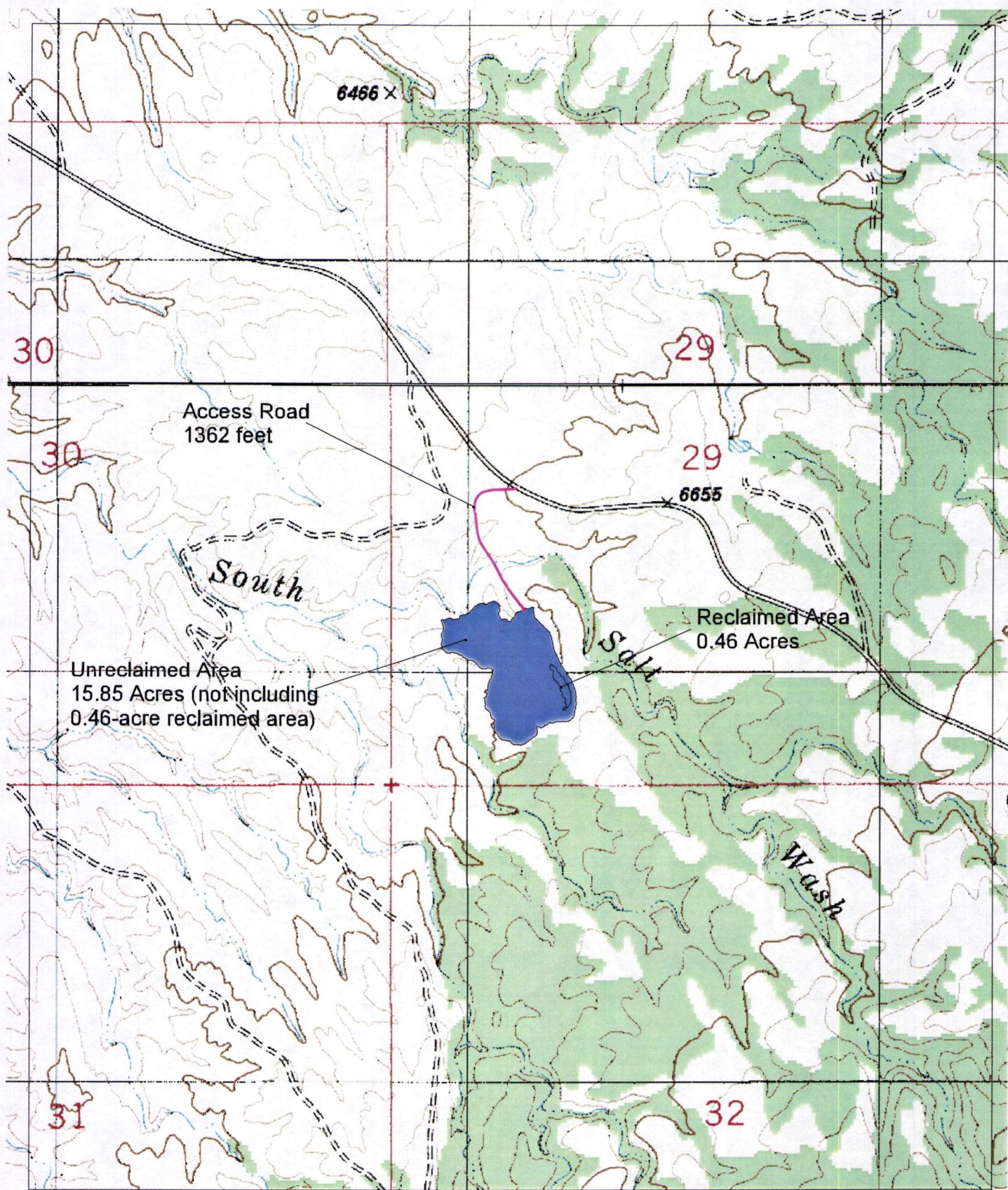
PBB:jb

cc: Karen Palmer, Diamond K

Dean Nyffeler, Price BLM

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Dept. of Natural Resources  
Division of Oil, Gas & Mining  
Mineral Mines Program

Different data sources and input scales  
may cause misalignment of data layers.  
This product may not meet DOGM  
standards for accuracy and content.

300 0 300 600 Feet



Scale 1:30,000  
Contour Interval: 40 feet



Mine Number: M/015/041  
Mine Name: Diamond K Gypsum  
Township 22 S., Range 9 E., Section 29 SLBM  
Copper Globe Quadrangle

Drafted by PBB

July 2, 2004



**ATTACHMENT**  
**Photographs**

**M/015/041, DKG Quarry, Diamond K Gypsum**

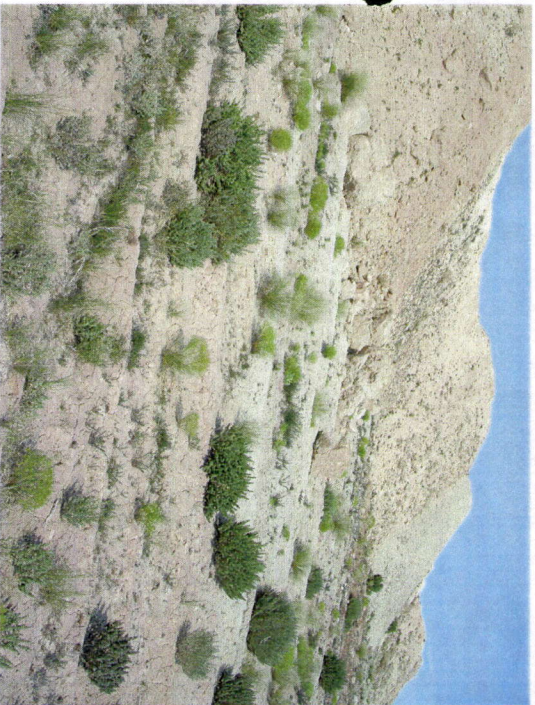
**Inspection Dated: July 2, 2004; Report Dated: July 29, 2004**



**Photo 1. The outslope of one of the mining areas.**



**Photo 3. Another view of an outslope with quite a lot of rock in the drainage.**



**Photo 2. A view of a reclaimed area within the disturbed area.  
Note the amount of native vegetation.**



**Photo 4. The reclaimed area.**